



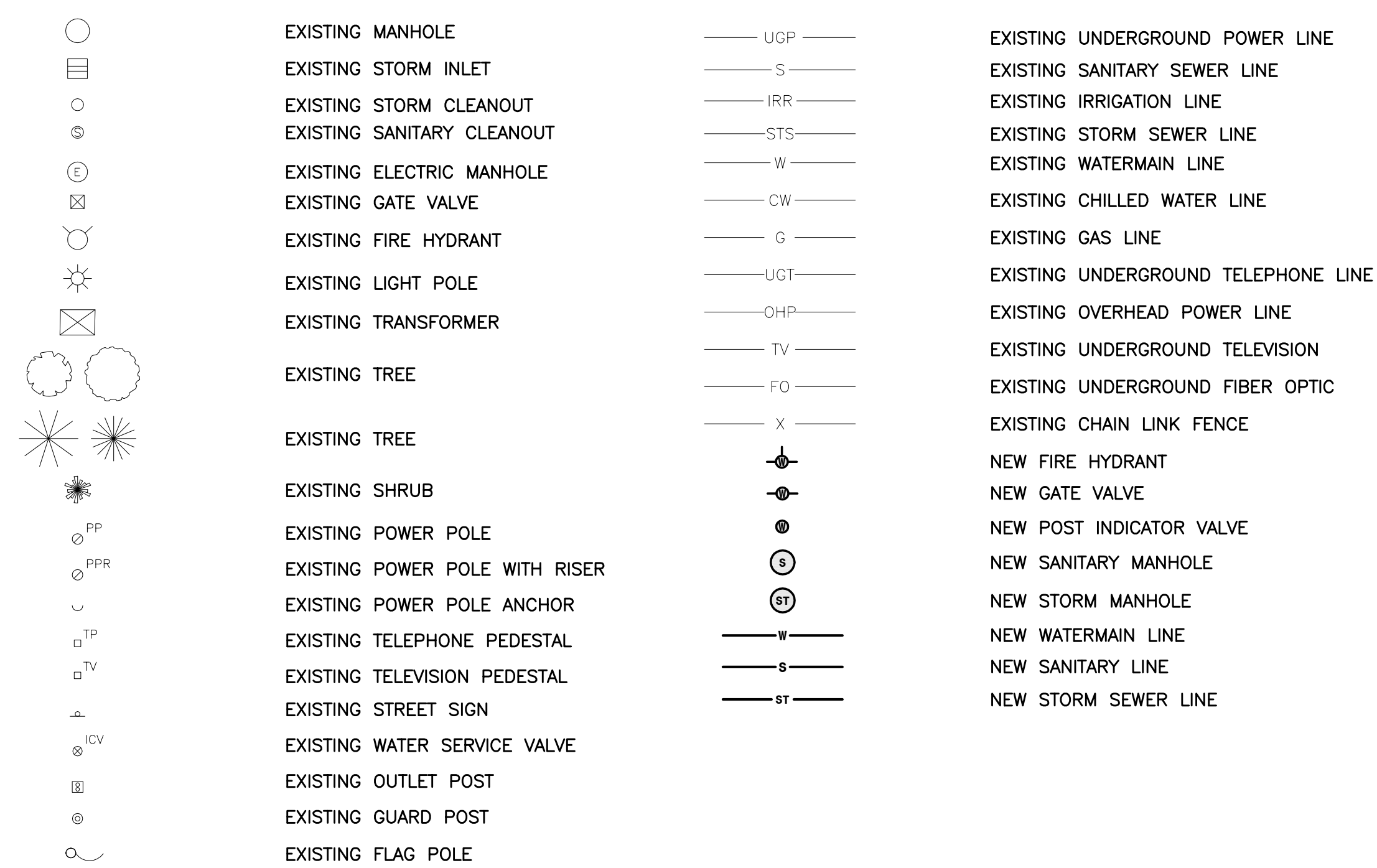
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BENCHMARKS:

1. BM #1: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF ELM STREET & 21ST AVENUE NORTH  
ELEVATION = 902.46 (NAVD 88)
2. BM#2: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE SOUTH PARKING LOT.  
ELEVATION = 891.74 (NAVD 88)

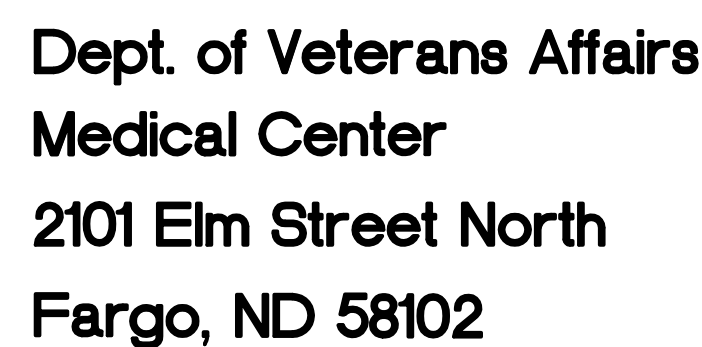


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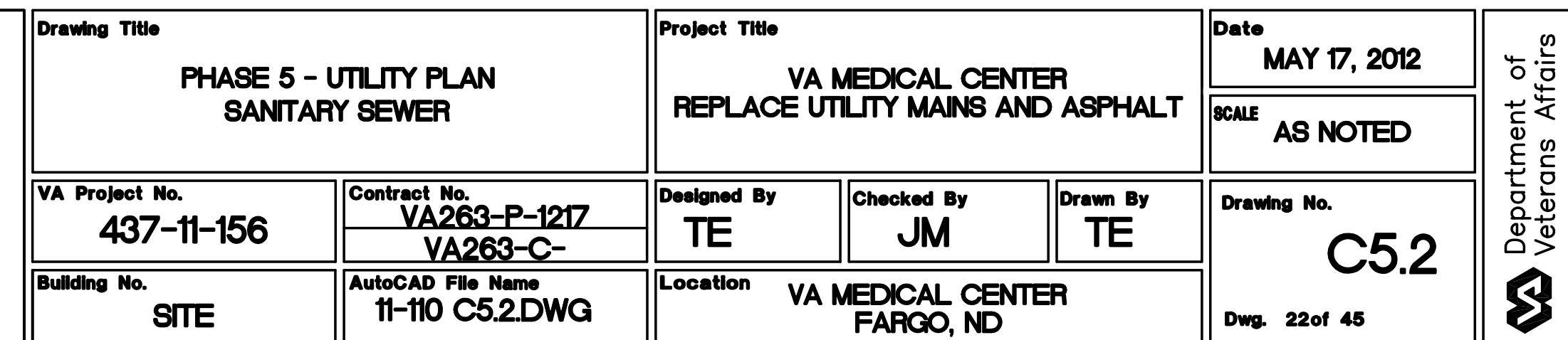
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**MBN**  
ENGINEERING  
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FARGO, ND 58102  
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PLAN NOTES:

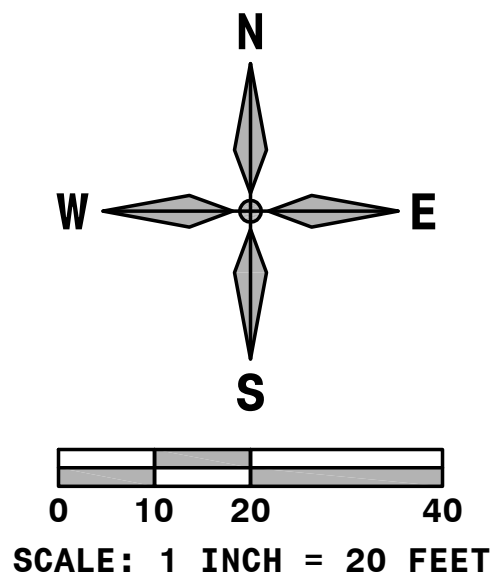
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Department of  
Veterans Affairs



SYMBOL LEGEND:

	EXISTING MANHOLE		EXISTING UNDERGROUND POWER LINE
	EXISTING STORM INLET		EXISTING SANITARY SEWER LINE
	EXISTING STORM CLEANOUT		EXISTING IRRIGATION LINE
	EXISTING SANITARY CLEANOUT		EXISTING STORM SEWER LINE
	EXISTING ELECTRIC MANHOLE		EXISTING WATERMAIN LINE
	EXISTING GATE VALVE		EXISTING CHILLED WATER LINE
	EXISTING FIRE HYDRANT		EXISTING GAS LINE
	EXISTING LIGHT POLE		EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING TRANSFORMER		EXISTING OVERHEAD POWER LINE
	EXISTING TREE		EXISTING UNDERGROUND TELEVISION
	EXISTING SHRUB		EXISTING UNDERGROUND FIBER OPTIC
	EXISTING POWER POLE		EXISTING CHAIN LINK FENCE
	EXISTING POWER POLE WITH RISER		NEW FIRE HYDRANT
	EXISTING POWER POLE ANCHOR		NEW GATE VALVE
	EXISTING TELEPHONE PEDESTAL		NEW POST INDICATOR VALVE
	EXISTING TELEVISION PEDESTAL		NEW SANITARY MANHOLE
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	EXISTING GUARD POST		NEW STORM SEWER LINE
	EXISTING FLAG POLE		

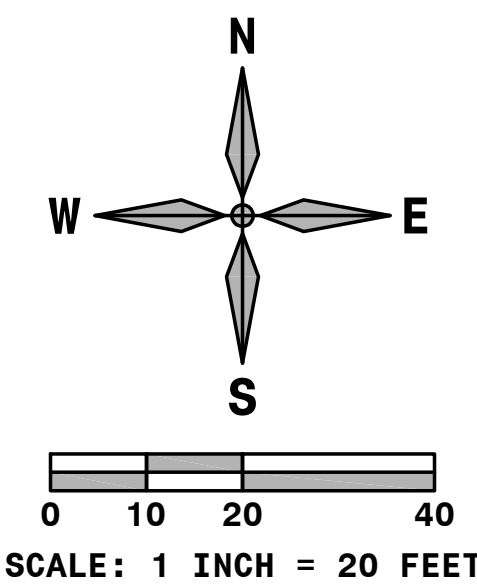
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	Dept. of Veterans Affairs Medical Center 2101 Elm Street North Fargo, ND 58102		IMAGE GROUP INC., Architecture & Interiors MBN ENGINEERING, Civil Engineers			Drawing Title	Project Title	Date	Department of Veterans Affairs
						PHASE 5 - UTILITY PLAN STORM SEWER	VA MEDICAL CENTER REPLACE UTILITY MAINS AND ASPHALT	MAY 17, 2012	
Revisions	Date	VA Project No. 437-11-156	Contract No. VA263-P-1217 VA263-C-	Designed By TE	Checked By JM	Drawn By TE	Drawing No. C5.4	Dwg. 24 of 45	
		Building No. SITE	AutoCAD File Name 11-110 C5.4.DWG	Location VA MEDICAL CENTER FARGO, ND					



#### SYMBOL LEGEND:

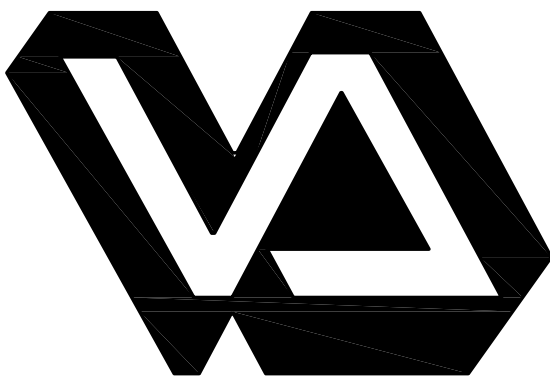



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	EXISTING POWER POLE ANCHOR		NEW GUTTER ELEVATION
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	EXISTING TELEVISION PEDESTAL		NEW SIDEWALK ELEVATION
			MATCH EXISTING ELEVATION
			NEW SLOPE & DIRECTION OF FLOW

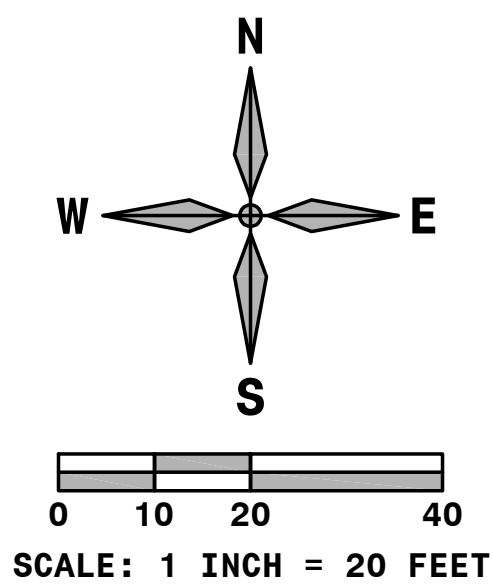
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<b>VA Project No.</b> <b>437-11-156</b>	<b>Contract No.</b> <b>VA263-P-1217 VA263-C-</b>	<b>Designed By</b> <b>TE</b>	<b>Checked By</b> <b>JM</b>	<b>Drawn By</b> <b>TE</b>	<b>Drawing No.</b> <b>C5.5</b>	<b>Building No.</b> <b>SITE</b>	<b>AutoCAD File Name</b> <b>11-110 C5.5.DWG</b>	<b>Location</b> <b>VA MEDICAL CENTER FARGO, ND</b>	<b>Dwg. 25 of 45</b>	



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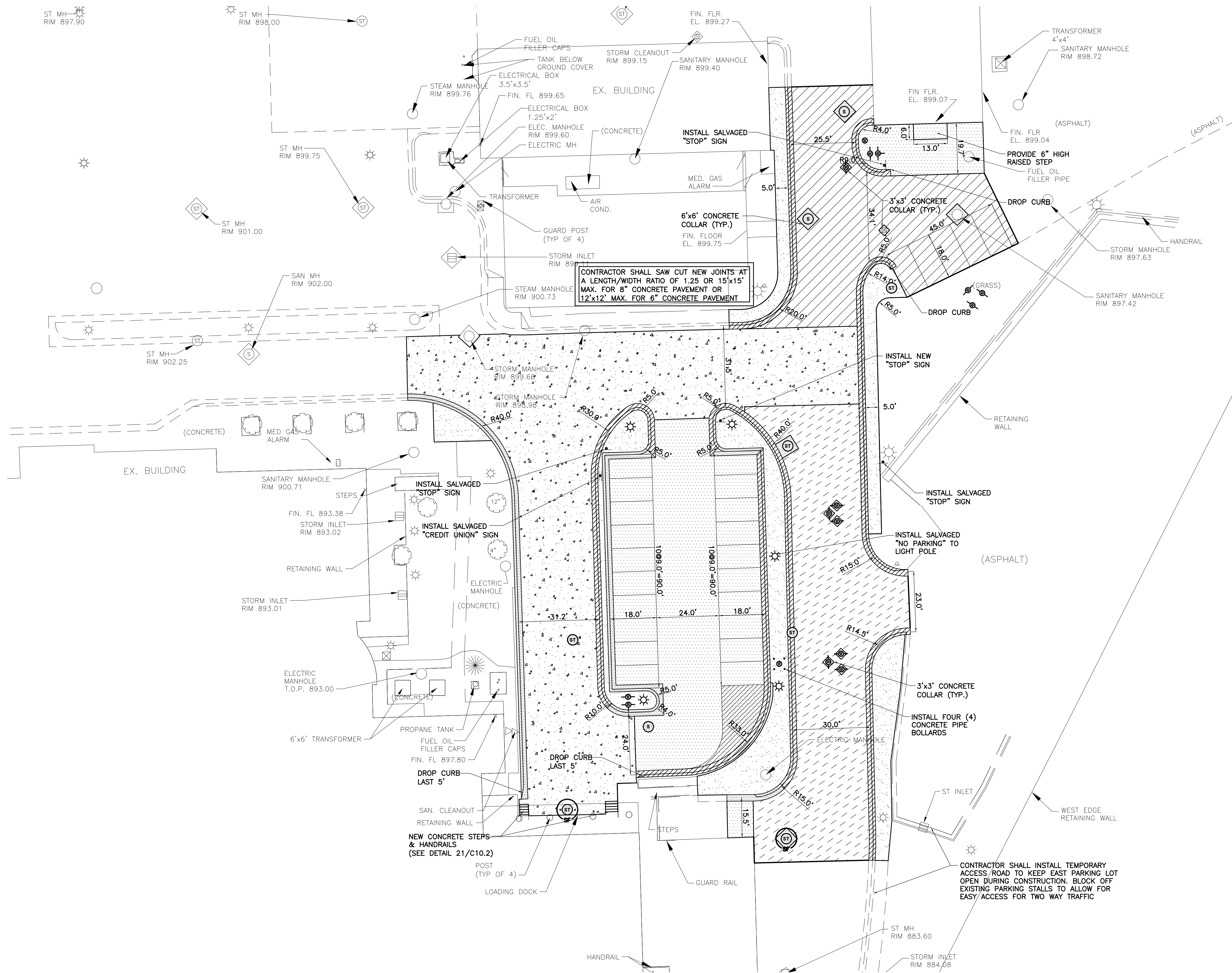
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	EXISTING STORM INLET		EXISTING GUARD POST
	EXISTING STORM CLEANOUT		EXISTING FLAG POLE
	EXISTING SANITARY CLEANOUT		EXISTING CHAIN LINK FENCE
	EXISTING ELECTRIC MANHOLE		NEW FIRE HYDRANT
	EXISTING GATE VALVE		NEW GATE VALVE
	EXISTING FIRE HYDRANT		NEW POST INDICATOR VALVE
	EXISTING LIGHT POLE		NEW SANITARY MANHOLE
	EXISTING TRANSFORMER		NEW STORM MANHOLE
	EXISTING TREE		NEW 4" REINFORCED CONCRETE SIDEWALK
	EXISTING TREE		NEW 6" ASPHALT PAVEMENT
	EXISTING SHRUB		NEW 9" ASPHALT PAVEMENT
	EXISTING POWER POLE		NEW 6" CONCRETE PAVEMENT
	EXISTING POWER POLE WITH RISER		NEW 8" REINFORCED CONCRETE PAVEMENT
	EXISTING POWER POLE ANCHOR		NEW TYPE I MOUNTABLE CURB & GUTTER
	EXISTING TELEPHONE PEDESTAL		NEW TYPE II MOUNTABLE CURB & GUTTER
	EXISTING TELEVISION PEDESTAL		NEW INLET PROTECTION
	EXISTING STREET SIGN		SALVAGED LIGHT POLE
	EXISTING WATER SERVICE VALVE		

**PLAN NOTES:**

- CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
- ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO REMOVAL.
- CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
- CONTRACTOR SHALL MAINTAIN 7.5' BURY DEPTH OVER ALL NEW WATERMAIN.
- CONTRACTOR SHALL PROTECT THE EXISTING WATERMAIN AND ENSURE THAT VA MEDICAL CAMPUS HAS NO DISRUPTION OF SERVICE. NEW WATERMAIN SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY DISCONNECTION OF EXISTING WATER SERVICE. COORDINATE ANY REQUIRED LOSS OF SERVICE WITH VA ADMINISTRATION PRIOR TO WORK.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A TEMPORARY WATER SERVICE TO THE AFFECTED VA BUILDINGS. THE METHOD OF PROVIDING THE TEMPORARY WATER SERVICE SHALL BE AN OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ENGINEER. ALL TEMPORARY WATER MAINS AND SERVICES SHALL BE DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ONE WATER SAMPLE PER SERVICE CONNECTION WILL BE TAKEN AFTER THE TEMPORARY WATER LINE IS FLUSHED. THE SAMPLE SHALL SHOW THE ABSENCE OF BACTERIA BEFORE CONNECTIONS ARE ALLOWED.
- THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN UNINTERRUPTED SEWER SERVICE ON SEWER RECONSTRUCTION WHERE WORK WILL INTERFERE WITH SEWAGE FLOW IN THE EXISTING SEWER. THE BYPASS SHALL BE MADE BY DIVERTING THE EFFLUENT FLOW AT AN UPSTREAM ACCESS MANHOLE AND PUMPING IT THROUGH A SEPARATE CONDUIT TO A DOWNSTREAM REENTRY POINT OR TO AN ADJACENT SEWER SYSTEM. THE PUMP AND BYPASS CONDUIT SHALL BE OF ADEQUATE SIZE AND CAPACITY TO HANDLE THE FLOW. THE EFFLUENT LEVEL IN THE BYPASS PUMPING MANHOLE SHALL NOT BE ALLOWED TO RISE MORE THAN 1 FOOT ABOVE THE CROWN OF THE INCOMING SEWER PIPE. BYPASS PUMPING SHALL BE INCIDENTAL TO THE SEWER WORK.
- CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
- CONTRACTOR SHALL RELOCATE ANY EXISTING UTILITIES THAT CONFLICT WITH THE INSTALLATION OF THE NEW SANITARY SEWER, STORM SEWER, AND WATERMAIN. ADDITIONAL WORK AND MATERIALS SHALL BE INSTALLED AT NO COST TO THE PROJECT.
- ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

**BENCHMARKS:**

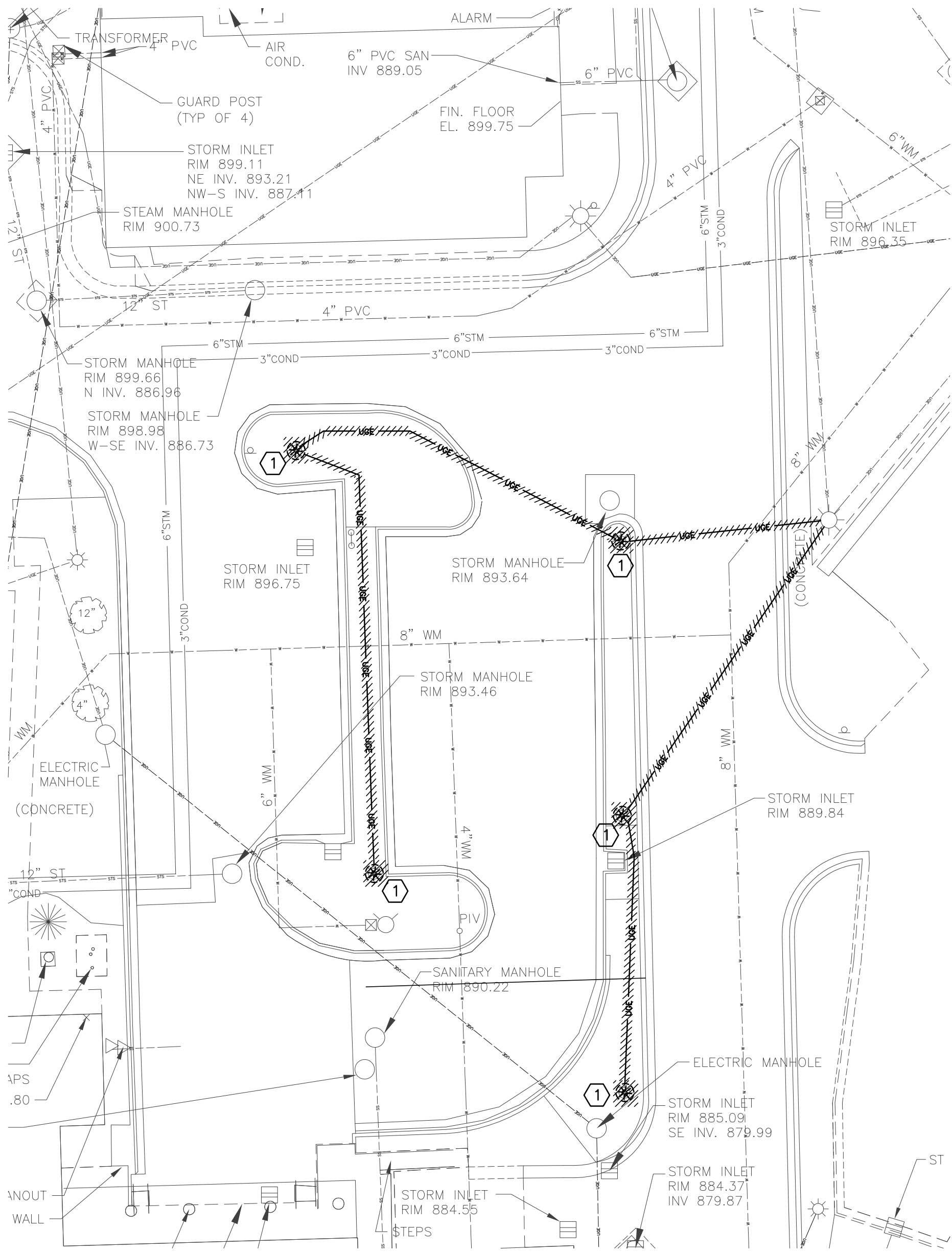
- BM #1: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF ELM STREET & 21ST AVENUE NORTH. ELEVATION = 902.46 (NAVD 88)
- BM #2: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE SOUTH PARKING LOT. ELEVATION = 891.74 (NAVD 88)



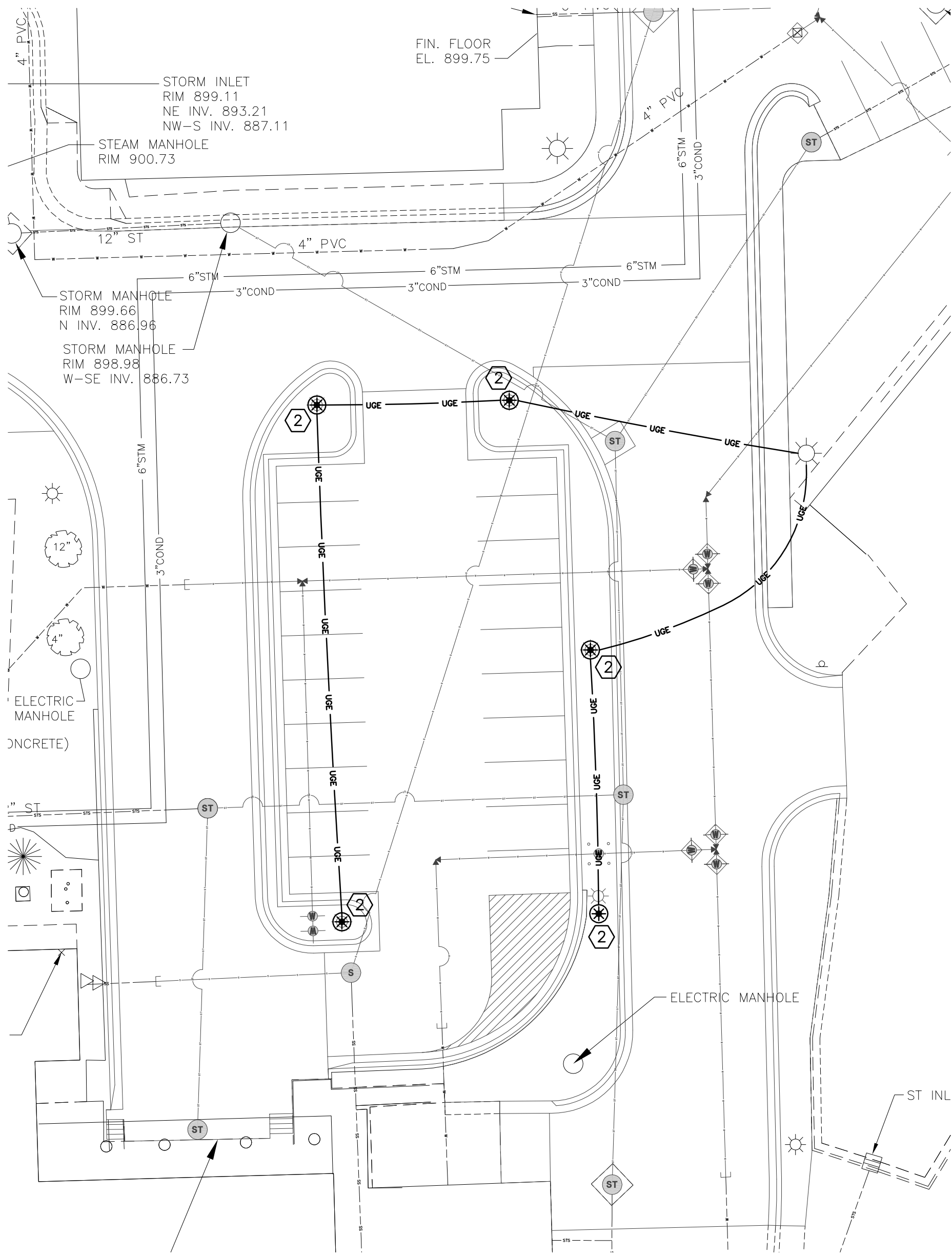
ELECTRICAL SYMBOLS LEGEND	
SYMBOLS	DESCRIPTION
	DASHED LINES INDICATE EXISTING FIXTURES, DEVICES, OR EQUIPMENT
	POST TOP MOUNTED LIGHTING FIXTURE
	ARM MOUNTED PARKING LOT LIGHTING FIXTURE
	UNDER GROUND ELECTRICAL
	NOTE IDENTIFICATION

PLAN NOTES:

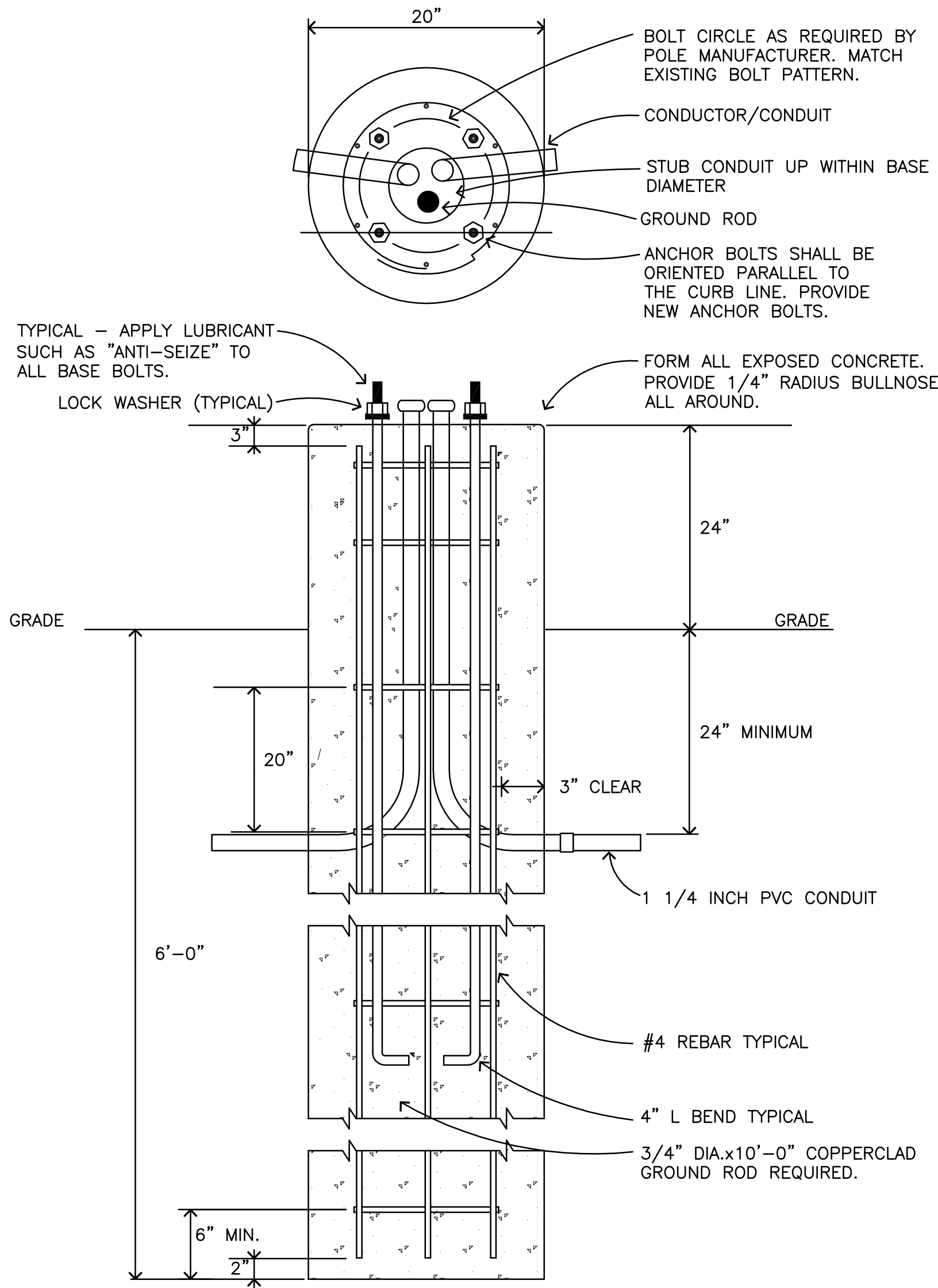
- ① LIGHT FIXTURE TO BE REMOVED AND SALVAGED FOR REINSTALLATION WHERE SHOWN ON 2/E5.7. PROVIDE STORAGE OF LIGHT FIXTURE DURING CONSTRUCTION. REMOVE POLE BASE. REMOVE CONDUCTORS BETWEEN LIGHT FIXTURES AND WIRING BACK TO SOURCE SHOWN.
- ② REINSTALL LIGHT FIXTURE AND POLE SALVAGED DURING DEMOLITION. SEE LIGHT POLE BASE DETAIL 3/E5.7. MATCH CONDUCTOR SIZE AND NUMBER OF CONDUCTORS WITH EXISTING CIRCUITING. CIRCUIT AS SHOWN. PROVIDE #8 CONDUCTORS AND 1 1/4 INCH CONDUIT MINIMUM.



1 SITE PLAN - ELECTRICAL DEMOLITION  
E5.7



2 SITE PLAN - ELECTRICAL REMODELING  
E5.7



NOTE:  
PROVIDE A SPARE CONDUIT STUB AT EACH END-OF-LINE FIXTURE. SEE PLANS FOR ADDITIONAL SPARE STUBS.

3 LIGHT POLE BASE DETAIL  
E5.7 NOT TO SCALE

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<div><div></div><div>Revisions</div><div>Date</div></div>		<div><div><div><div></div><div></div></div><div>Dept. of Veterans Affairs Medical Center 2101 Elm Street North Fargo, ND 58102</div></div></div>		<div><div><div><div></div><div></div></div><div>IMAGE GROUP INC., Architecture &amp; Interiors MBN ENGINEERING, Civil Engineers</div></div><div><div><div><div></div><div></div></div><div>IMAGE GROUP INC. 403 CENTER AVENUE, SUITE 300 MOORHEAD, MN 56560</div></div><div><div><div><div></div><div></div></div><div>MBN ENGINEERING MECHANICAL • ELECTRICAL • CIVIL 603 7th St N, Suite 200 FARGO, ND 58102 PHONE: 701-476-6339 FAX: 701-476-6340</div></div><div><div><div><div></div><div></div></div><div>DATE: 11/15/11 PROJECT: VA MEDICAL CENTER FARGO, ND</div></div></div></div></div></div>		<div><div><div><div></div><div></div></div><div>PHASE 5 - ELECTRICAL DEMOLITION AND ELECTRICAL REMODELING</div></div><div><div><div><div></div><div></div></div><div>VA Project No. 437-11-156</div></div><div><div><div><div></div><div></div></div><div>Contract No. VA263-P-1217 VA263-C-</div></div><div><div><div><div></div><div></div></div><div>AutoCAD File Name 11-110 E5.7 BOUND.DWG</div></div></div></div></div></div>		<div><div><div><div></div><div></div></div><div>VA MEDICAL CENTER REPLACE UTILITY MAINS AND ASPHALT</div></div><div><div><div><div></div><div></div></div><div>Designed By MB</div></div><div><div><div><div></div><div></div></div><div>Checked By MB</div></div><div><div><div><div></div><div></div></div><div>Drawn By TP</div></div></div></div></div></div>		<div><div><div><div></div><div></div></div><div>Date MAY 17, 2012</div></div><div><div><div><div></div><div></div></div><div>Scale AS NOTED</div></div><div><div><div><div></div><div></div></div><div>Drawing No. E5.7</div></div><div><div><div><div></div><div></div></div><div>Dwg. 27 of 45</div></div></div></div></div></div>
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Department of Veterans Affairs